

S7 Update

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TRR meeting, March 11, 2004

7ID operation update

- On Feb. 17, the sector operation was reviewed by the SRP. We had a very positive response from the panel. They were very supportive of the laser upgrade proposed by Eric L.
- The schedule is now finalized. Several very successful experiments have been completed already, and several technical upgrades have been done.
- The laser hutch is now connected to the AC. A labyrinth was open by Technit and two are used to feed cold air in 7ID-D. We are very excited about this upgrade.
- The alignment of the beamline by DW and the survey group has been completed yesterday! The beamline is now ready for a commissioning window upgrade this fall.
- We are investigating this week noise issues on the BPM vertical position and preparing for experiments in D.

BPM noise issues

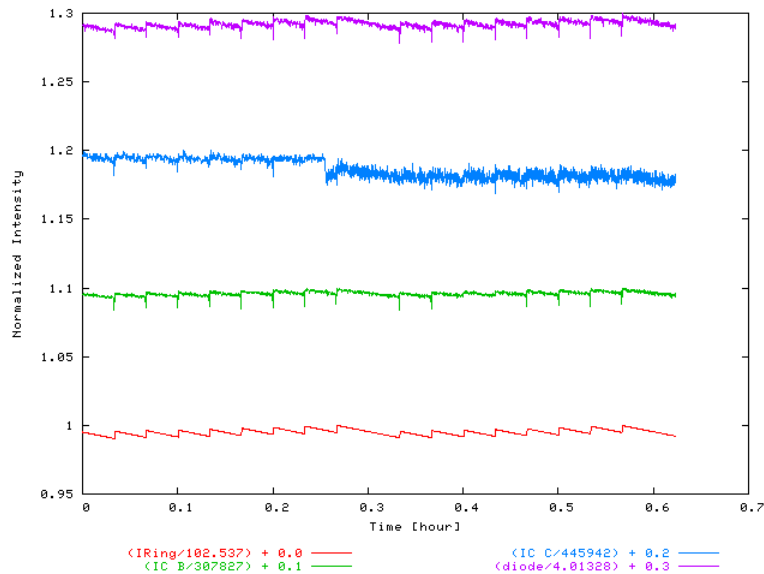


Fig 03-11.1. Time series of the beam intensity in 7ID-C, starting at 03h37 on 03/11/04 and lasting about 0.62 hours. The 7ID-C diode sum, the ring current, ion chamber in B and C are shown. The effect of top-up is clearly seen.

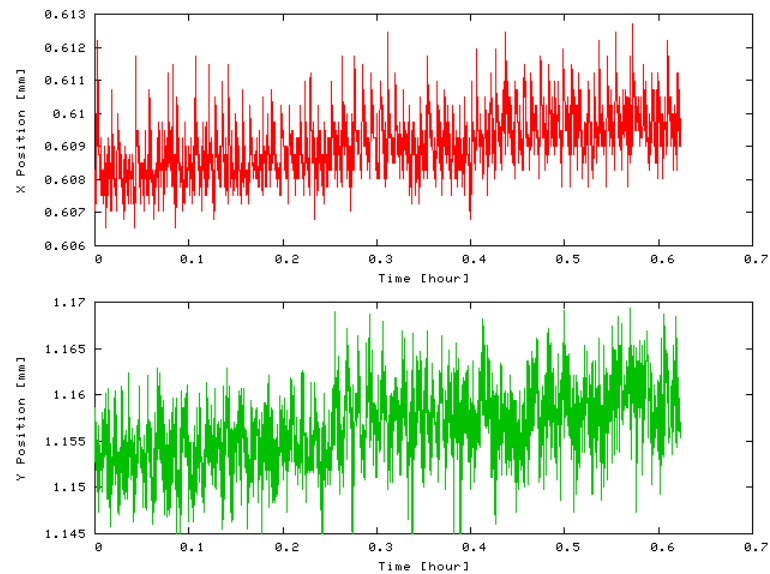


Fig 03-11.2. The beam position, 49.2 m from the source, or 19 m from the High Heat Load mono in 7ID-C during the same time series as Fig. 03-11.1. The standard deviation of the vertical beam position is about 3.5 times larger than the one for the horizontal position. Note the bump seen in the 7ID-C ion chamber near $t=0.25$ h correlates to a small vertical upward motion.

New temperature screen, AC

